Aquaculture

VOLS. 392–395 CONTENTS 10 MAY 2013

(Abstracts/contents list published in: Aquatic Science and Fisheries Abstracts, Biological Abstracts, Elsevier BIOBASE/Current Awareness in Biological Sciences, Current Contents A, B & ES, EMBiology, Environment Abstracts, Freshwater and Aquaculture Contents Tables, Geo Abstracts, Geobase, Marine Science Contents Tables, Zoological Record). Also covered in the abstract and citation database SciVerse Scopus®. Full text available in SciVerse ScienceDirect®

Diseases

First molecular evidence of cross-species induction of metalloprotease gene expression in *Vibrio* strains pathogenic for Pacific oyster *Crassostrea gigas* involving a quorum sensing system
S. De Decker, Y. Reynaud (La Tremblade, France) and D. Saulnier (Polynésie, France) 1

Cradle or plague pit? Illuminated cages increase the transmission risk of parasites from copepods to coregonids
U. Sichrowsky (Innsbruck, Austria), R. Schabetsberger (Salzburg, Austria), H. Gassner (Mondsee, Austria), R. Kaiser (Salzburg, Austria), B. Boufana (Greater Manchester, UK) and R. Psenner (Innsbruck, Austria) 8

Immune effector activities in challenged rohu, *Labeo rohita* after vaccinating with *Aeromonas* bacterin
A. Bharadwaj, T.J. Abraham (Kolkata, India) and S.N. Joardar (West Bengal, India) 16

Development of TaqMan real-time PCR assays for monitoring *Vibrio harveyi* infection and a plasmid harbored by virulent strains in European abalone *Haliotis tuberculata* aquaculture
D. Schikorski, T. Renault (La Tremblade, France), C. Paillard, A. Bidault-Toffin (Plouzané, France), D. Tourbiez (La Tremblade, France) and D. Saulnier (Taravao, French Polynesia) 106

Recently discovered *Vibrio anguillarum* phages can protect against experimentally induced vibriosis in Atlantic salmon, *Salmo salar*
G. Higuera, R. Bastías (Santiago, Chile), G. Tsertsvadze (Tbilisi, Georgia), J. Romero and R.T. Espejo (Santiago, Chile) 128

Nutrition

Application of autochthonous *Bacillus* bioencapsulated in copepod to grouper *Epinephelus coioides* larvae
Y.-Z. Sun, H.-L. Yang, K.-P. Huang, J.-D. Ye and C.-X. Zhang (Xiamen, China) 44

Effects of nucleotide supplementation on growth, immune responses and intestinal morphology in juvenile turbot fed diets with graded levels of soybean meal (*Scophthalmus maximus* L.)
M. Peng, W. Xu, Q. Ai, K. Mai, Z. Liufu and K. Zhang (Qingdao, PR China) 51

Effect of dietary supplementation of periphyton on growth performance and digestive enzyme activities in *Penaeus monodon*
P.S.S. Anand (West Bengal, India), M.P.S. Kohli (Mumbai, India), S.D. Roy (Portblair, India), J.K. Sundaray, S. Kumar (West Bengal, India), A. Sinha, G.H. Pailan and M.k. Sukham (Kolkata, India) 59

Nutritional value of microalgae-based diets for lions-paw scallop (*Nodipecten subnodosus*) juveniles reared at different temperatures
P.E. Saucedo (La Paz, Mexico), A. González-Jiménez (Oaxaca, Mexico), H. Acosta-Salmón, J.M. Mazón-Suástegui (La Paz, Mexico) and J.A. Ronsón-Paulín (Oaxaca, Mexico) 113

Dietary threonine requirements of juvenile Pacific white shrimp, *Litopenaeus vannamei*
Q.-C. Zhou (Ningbo, China), Y.-L. Wang, H.-L. Wang and B.-P. Tan (Zhanjiang, China) 142

Physiology and Endocrinology: Fish

Fusion of Tat-PTD to the C-terminus of catfish growth hormone enhances its cell uptakes and growth-promoting effects
J. Yu, X. Meng, J. Xu, D. Chen (Hubei, PR China), M. Meng (Wuhan, PR China) and Y. Ni (Hubei, PR China) 84

(continued on last page of this issue)

Visit the Elsevier Aquaculture Website today!

New FREE Online Features:

- **Table of Contents NOW WITH ABSTRACTS**
- **Full Search on Abstracts, Authors and Keywords**
- **Author and Subject Index**

Bookmark: http://www.elsevier.com/locate/aqua-online or http://www.elsevier.com/locate/aqua-online

0044-8486(20130510)392-395;1-E

Available online at www.sciencedirect.com

SciVerse ScienceDirect

(contents continued from back cover)

Artificial fertilisation of cultured Senegalese sole (*Solea senegalensis*): Effects of the time of day of hormonal treatment on inducing ovulation
I. Rasines, M. Gómez, I. Martín, C. Rodríguez (Santander, Spain), E. Mañanós (Castellón, Spain) and O. Chereguini (Santander, Spain) 94

Vitellogenin in Asian catfish, *Clarias batrachus*: Purification, partial characterization and quantification during the reproductive cycle by ELISA
S.K. Garnayak, J. Mohanty (Bhubaneswar, India), T.V. Rao (Sambalpur, India), S.K. Sahoo and P.K. Sahoo (Bhubaneswar, India) 148

Physiology and Endocrinology: Molluscs and Crustaceans

Healing and regeneration of the freshwater pearl mussel *Hyriopsis cumingii* Lea after donating mantle saibos
Y. Liu, Z. Bai, Q. Li, Y. Zhao and J. Li (Shanghai, China) 34

Production Science

Role of sand as substrate and dietary component for juvenile sea cucumber *Holothuria scabra*
G. Robinson, M.J. Slater (Newcastle, UK), C.L.W. Jones (Grahamstown, South Africa) and S.M. Stead (Newcastle, UK) 23

Yield performance comparison between cultures of rice cum prawn (*Macrobrachium rosenbergii*) and rice cum fish (*Cyprinus carpio*, *Oreochromis niloticus*) in North-Eastern Bangladesh
M. Mirhaj (Stuttgart, Germany), A. Boit (Potsdam, Germany), M.A. Razzak and M.A. Wahab (Mymensingh, Bangladesh) 26

Modulating lipid accumulation and composition in microalgae by biphasic nitrogen supplementation
S.K. Ratha, R. Prasanna (New Delhi, India), R.B.N. Prasad, C. Sarika (Hyderabad, India), D.W. Dhar and A.K. Saxena (New Delhi, India) 69

Environmental induced methylation changes associated with seawater adaptation in brown trout
P. Morán, F. Marco-Rius, M. Megías, L. Covelo-Soto and A. Pérez-Figueroa (Vigo, Spain) 77

An orthogonal design for optimization of growth conditions for all life history stages of *Gracilariopsis lemaneiformis* (Rhodophyta)
W. Zhou, Z. Sui, J. Wang and L. Chang (Qingdao, People's Republic of China) 98

Water temperature manipulation can induce oocyte maturation and ovulation in the common Japanese conger, *Conger myriaster*
T. Utoh, N. Horie, A. Okamura, N. Mikawa, Y. Yamada, S. Tanaka, H.P. Oka (Aichi, Japan) and K. Tsukamoto (Aichi, Chiba, Japan) 120

Sustainability and Society

Design theory in offshore fish cage designing
M. Shainee, H. Ellingsen, B.J. Leira and A. Fredheim (Trondheim, Norway) 134